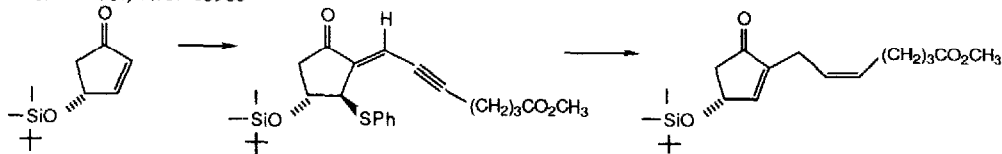


GRAPHICAL ABSTRACTS

Tetrahedron Lett. 30,13(1989)

A NOVEL AND EFFICIENT ROUTE TO PROSTANOID INTERMEDIATES

Jeremy I. Levin, American Cyanamid Company,
Medical Research Division, Lederle Laboratories,
Pearl River, N.Y. 10965

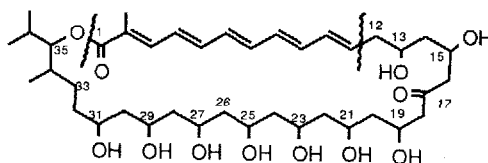


Tetrahedron Lett. 30,15 (1989)

PROGRESS TOWARD ROFLAMYCOIN; SYNTHESIS OF THE C-12 TO C-35 SECTION IN HOMOCHIRAL FORM

Bruce H. Lipshutz, Robert Moretti, and Robert Crow
Department of Chemistry, University of California
Santa Barbara, CA 93106 USA

A 24 carbon fragment characteristic of the (presumed all *syn*) polyene macrolide roflamycoin has been prepared in optically pure form.



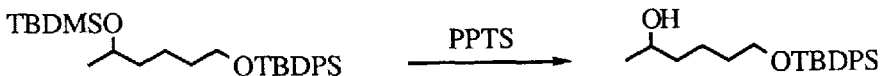
Roflamycoin

Tetrahedron Lett. 30,19 (1989)

SELECTIVE DE-PROTECTION OF SILYL ETHERS

Chandra Prakash, Samir Saleh, and Ian A. Blair
Departments of Pharmacology and Chemistry, Vanderbilt University, Nashville, TN 37232

Pyridinium *p*-toluenesulfonate has been found to remove *t*-butyldimethylsilyl (TBDMS) ethers selectively in the presence of *t*-butyldiphenylsilyl (TBDPS) ethers.



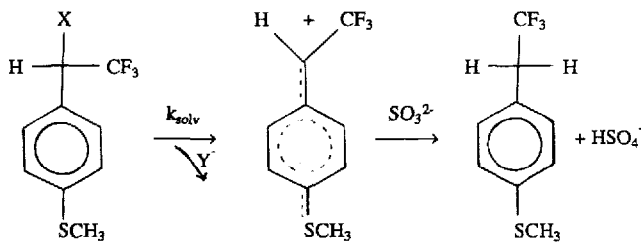
Tetrahedron Lett. 30,23 (1989)

REDUCTION OF THE 1-(4-THIOMETHYLPHENYL)-2,2,2-TRIFLUOROETHYL CARBOCATION BY SODIUM SULFITE

John P. Richard, Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055.

The 1-(4-thiomethylphenyl)-2,2,2-trifluoroethyl carbocation formed by unimolecular dissociation of neutral precursors is reduced to the alkane by SO_3^{2-} .

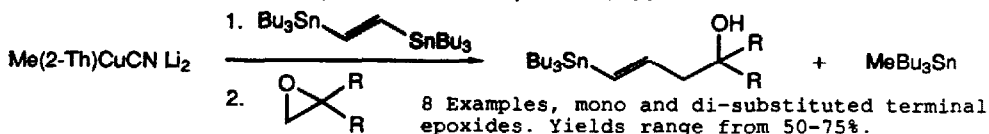
X = Br
Tos



Tetrahedron Lett. 30, 27 (1989)

THE SYNTHESIS OF β -HYDROXY-(E)-VINYLSTANNANES
USING AN "IN-SITU" CUPRATE REAGENT DERIVED FROM
(E)-BIS-(TRIBUTYLSTANNYL)ETHYLENE.

James R. Behling, John S. Ng, Kevin A. Babiak, Arthur L. Campbell*
Chemical Development Department, G.D. Searle Co., Skokie, Il. 60077
Edmund Elsworth and Bruce Lipshutz*, Department of Chemistry,
University of California, Santa Barbara, Ca. 93106



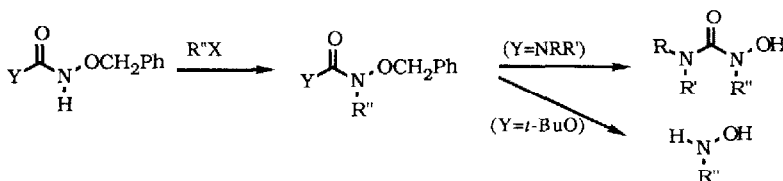
Tetrahedron Lett. 30, 31 (1989)

ALKYLATION OF N-BENZYLOXYUREAS AND CARBAMATES

Richard Sulsky and James P. Demers

Research Laboratories, Ortho Pharmaceutical Corporation, Raritan NJ 08869

N-Benzyloxyureas and orthogonally protected N-hydroxycarbamates can be alkylated in high yields and subsequently deprotected to provide N-alkyl hydroxyureas and hydroxylamines.

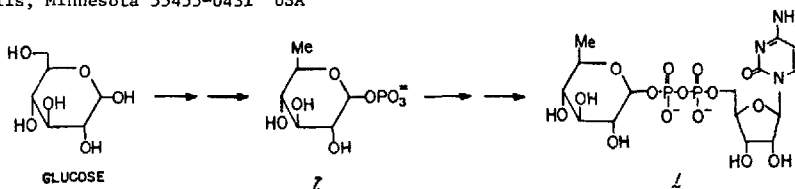


Tetrahedron Lett. 30, 35 (1989)

SYNTHESIS OF CYTIDINE DIPHOSPHATE-D-QUINOVOSE

Li-da Liu and Hung-wen Liu*

Department of Chemistry, University of Minnesota
Minneapolis, Minnesota 55455-0431 USA

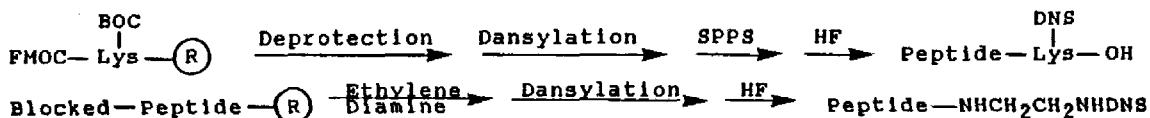


Tetrahedron Lett. 30, 39 (1989)

METHODS FOR THE CARBOXYL-TERMINAL FLUORESCENT LABELING
OF PEPTIDES USING SOLID PHASE PEPTIDE SYNTHESIS.

Angelo P. Consalvo, Paul P. Tamburini, William Stern and Stanley D. Young*
Unigene Laboratories, Inc., Fairfield, N.J. 07006 USA

Two methods for labeling synthetic peptides with a 5-dimethyl-amino-1-naphthalenesulfonyl (dansyl, DNS) group at the C-terminal residue using solid phase peptide synthesis (SPPS) are described.

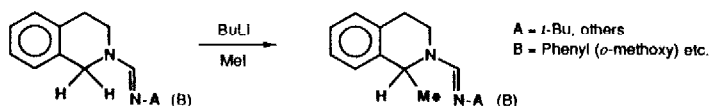


Tetrahedron Lett. 30,43 (1989)

α -AMINO CARBANIONS. A COMPETITION STUDY TO ASSESS RELATIVE ACIDITIES IN VARIOUS FORMAMIDINES

Michael A. Gonzalez and A. I. Meyers*

Department of Chemistry, Colorado State University, Fort Collins, Colorado 80523



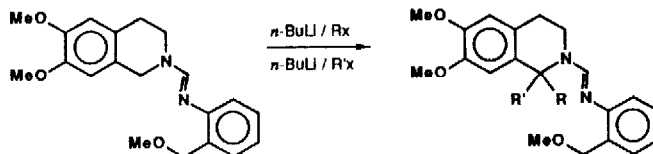
Two different formamidines were allowed to compete for a deficiency of *n*-butyllithium and the ratios of methylated product assessed.

Tetrahedron Lett. 30,47 (1989)

α -AMINO CARBANIONS. A SECOND GENERATION FORMAMIDINE FOR FACILE DEPROTONATION LEADING TO α -QUATERNARY SUBSTITUTION

Michael A. Gonzalez and A. I. Meyers*

Department of Chemistry, Colorado State University, Fort Collins, Colorado 80523



Use of the *o*-methoxymethyl anilino group in formamidines allows double metalation-alkylation for the first time.

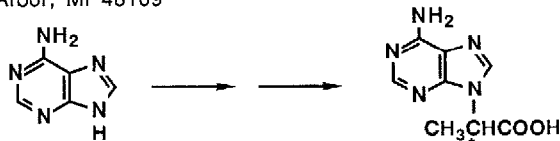
Tetrahedron Lett. 30,51 (1989)

SYNTHESIS OF OPTICALLY ACTIVE α -NUCLEIC ACID BASE SUBSTITUTED PROPANOIC ACIDS

C. G. Overberger and Ji Young Chang

Department of Chemistry and the Macromolecular Research Center
The University of Michigan, Ann Arbor, MI 48109

The (R)- α -nucleic acid base substituted propanoic acids were synthesized.



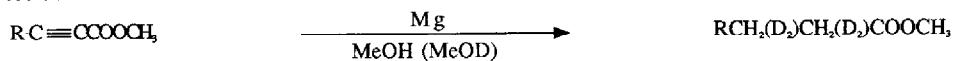
Tetrahedron Lett. 30,55 (1989)

SELECTIVE REDUCTIONS OF CONJUGATED ACETYLENES WITH MAGNESIUM AND METHANOL AND METHANOL-D

Robert O. Hutchins* and Suchismita, Department of Chemistry,

Drexel University, Philadelphia, PA 19104, Robert E. Zipkin, Ira M. Taffer, R. Sivakumar, Arthur Monaghan and E. Michael Elisseou, BIOMOL Research Laboratories, Inc., 5166 Campus Drive, Plymouth Meeting, PA 19462

The combination of Mg in methanol or methanol-d provides a convenient and effective system for the reduction of acetylenic bonds conjugated to esters or to two phenyl groups to the saturated or tetradeuterated derivatives.

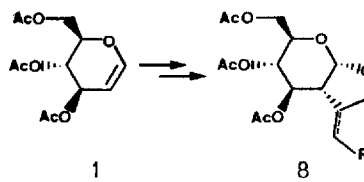


STERESELECTIVE C-C BOND FORMATION IN CARBOHYDRATES
BY RADICAL CYCLIZATION REACTIONS-II.

Tetrahedron Lett. 30, 57 (1989)

Alain De Mesmaeker*, Pascale Hoffmann, Beat Ernst
Central Research Laboratories, Ciba-Geigy Ltd.,
CH-4002 Basel, Switzerland.

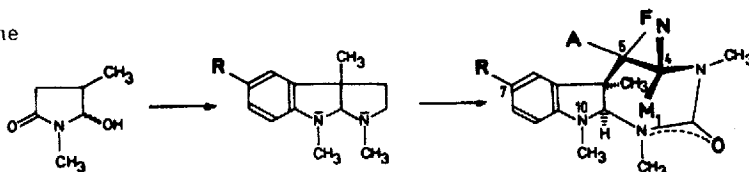
The synthesis of the bicyclic acetals **8** from the
glycal **1** using a radical cyclization reaction
is described.



Isoeserin und Homoisoeserin. Darstellung und Strukturauf-
klärung des Indolo-1.3-diazepinsystems.

Peter Rosenmund, Simeon Gektidis, Hannelore Brill und Renata Kalbe,
Chemisches Institut der Universität, D-6000 Frankfurt/M. Niederurseler Hang, W.-Germany.

C-ring enlargement of eseroline
and homo eseroline to indolo-
1.3-diazepines.



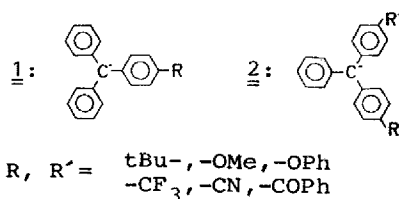
Tetrahedron Lett. 30, 61 (1989)

ENDOR INVESTIGATIONS ON THE CAPTO-DATIVE
STABILISATION OF TRIPHENYLMETHYL RADICALS

M. Lehnig and U. Stewen, Fachbereich Chemie,
Universität Dortmund, D-4600 Dortmund 50

Splitting parameters of radicals **1** and **2**
are given. The stabilisation of radicals **2** by
the combination of an electron accepting and
an electron donating substituent is estimated
to be 0.5 - 2 kcal/mol.

Tetrahedron Lett. 30, 63 (1989)

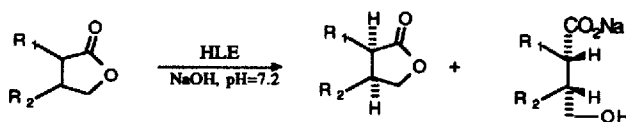


ENZYMATIC RESOLUTION OF RACEMIC BICYCLIC LACTONES
BY HORSE LIVER ESTERASE.

Tetrahedron Lett. 30, 67 (1989)

E. Guibé-Jampel, G. Rousseau, L. Blanco

Laboratoire des Carbocycles (Unité Associée au C.N.R.S.), I.C.M.O., Bât. 420
Université de Paris-Sud, 91405 ORSAY (France)

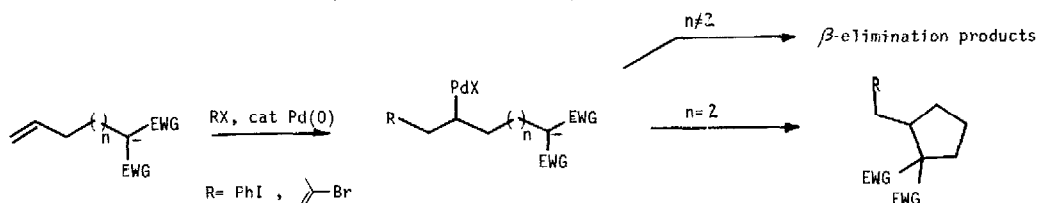


$R_1 - R_2 = (CH_2)_{10} \text{ to } (CH_2)_4$ and $-CH_2CH=CHCH_2-$ ee: 3 to 98%

NEW PALLADIUM MEDIATED CYCLOPENTANATION OF ALKENES BEARING A δ NUCLEOPHILIC SUBSTITUENT.

Tetrahedron Lett. 30,69 (1989)

Guy FOURNET, Geneviève BALME et Jacques GORE,
Université Claude Bernard - LYON I , 69622 VILLEURBANNE, France.

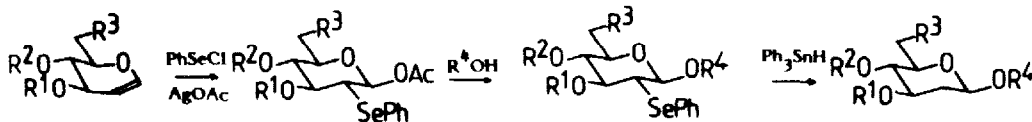


SELENIUM-MEDIATED GLYCOSIDATIONS: A SELECTIVE SYNTHESIS OF β -2-DEOXYGLYCOSIDES

Tetrahedron Lett. 30,75 (1989)

Michel Perez and Jean-Marie Beau*

Université d'Orléans, Laboratoire de Biochimie Structurale associé au CNRS,
BP 6759, 45067 Orléans, France

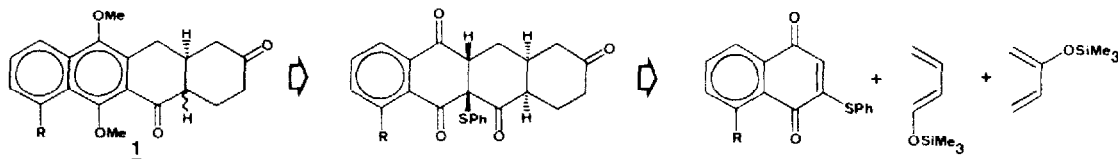


SYNTHESIS OF (\pm) 11-DEOXYDAUNOMYCINONE AND 4-DEMETHOXY ANALOGUE BY SEQUENTIAL DIELS-ALDER CYCLOADDITIONS.

Tetrahedron Lett. 30,83 (1989)

Sylvain Laugraud, André Guingant and Jean d'Angelo*
ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05 (FRANCE).

Tetracycles **1**, known key intermediates in the total synthesis of title compounds, were prepared by sequential Diels-Alder cycloadditions :



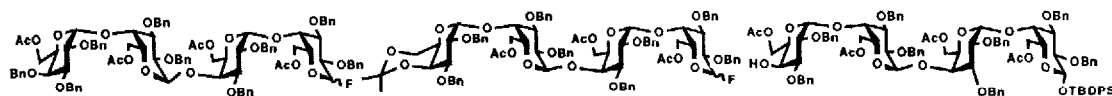
TOTAL SYNTHESIS OF GALACTODODECAOSIDURONIC ACID, AN ENDOGENOUS PHYTOALEXIN ELICITOR ISOLATED FROM SOYBEAN CELL WALL

Tetrahedron Lett. 30,87 (1989)

Yoshiaki Nakahara and Tomoya Ogawa

RIKEN (The Institute of Physical and Chemical Research), Wako-shi, Saitama, 351-01 Japan

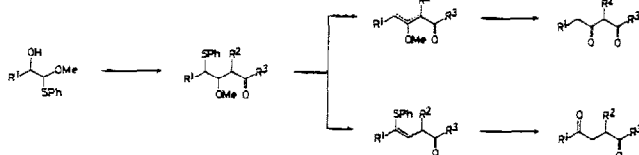
A stereoselective synthesis of galactododecaosiduronic acid, a most active endogenous phytoalexin elicitor, was achieved by use of the three key intermediates.



Tetrahedron Lett. 30,91 (1989)

DIVERGENT SYNTHESIS OF 1,3- AND 1,4-DIKETONES FROM
6-METHOXY- γ -PHENYLTHIO KETONES ACCESSIBLE THROUGH
NOVEL PHENYLTHIO MIGRATION REACTION

Tsuneo Sato, Masami Inoue, Satoru Kobara, Junzo Otera,* and Hitosi Nozaki
Department of Applied Chemistry, Okayama University of Science, Ridai-cho, Okayama 700, Japan



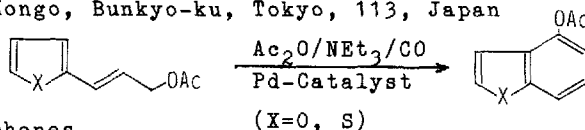
Tetrahedron Lett. 30,95 (1989)

SYNTHESIS OF BENZOFURANS AND BENZOTHIOPHENES BY PALLADIUM CATALYZED
CYCLOCARBONYLATION OF 3-PURYLALLYL AND 3-THIENYLALLYL ACETATES

Masakazu Iwasaki, Ji-ping Li, Yoshihiro Kobayashi, Hiroyuki Matsuzaka,
Youichi Ishii, and Masanobu Hidai*

Department of Synthetic Chemistry, Faculty of Engineering,
The University of Tokyo, Hongo, Bunkyo-ku, Tokyo, 113, Japan

The cyclocarbonylation was successfully applied to the synthesis of benzofurans and benzothiophenes.



Tetrahedron Lett. 30,99 (1989)

STEREOMUTATION OF ENDO-2-PHENYL-ENDO-6-TROPYLILOBICYCLO-
[2.2.2]OCTANE TO THE EXO-6-TROPYLIO ISOMER. STERIC RE-
PULSION BETWEEN THE PHENYL AND TROPYLIUM RINGS SHOWING INTRAMOLECULAR CHARGE-TRANSFER

Keizo Ikai, Ken'ichi Takeuchi,* Koichi Komatsu,* Ryotaro Tsuji, Tomomi Kinoshita,
and Kunio Okamoto

Department of Hydrocarbon Chemistry, Faculty of Engineering,
Kyoto University, Sakyo-ku, Kyoto 606, Japan

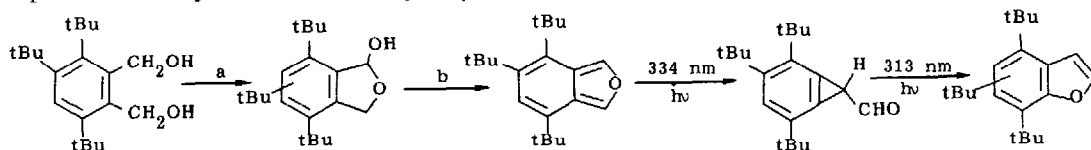
The ion **2** which shows intramolecular CT rearranges to **3** owing to steric repulsion between the two facing rings.



SYNTHESIS AND PHOTOCHEMICAL REACTION
OF A STABLE ISOBENZOFURAN DERIVATIVE

Sadao Miki, Masahiro Yoshida and Zen-ichi Yoshida*

Department of Synthetic Chemistry, Kyoto University, Yoshida Kyoto 606 Japan



a ; Collins oxidation, b ; heat 100°C/0.1 mmHg

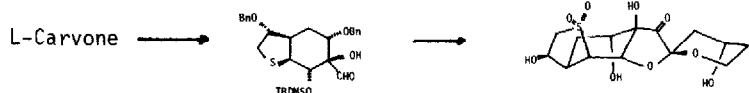
Tetrahedron Lett. 30,103 (1989)

Tetrahedron Lett. 30,105 (1989)

SYNTHETIC STUDY ON BREYNIN A : SYNTHESIS OF BREYNOLIDE SULFONE

Shigeru Nishiyama, Yoichi Ikeda, Shin-ichi Yoshida, and Shosuke Yamamura*

Department of Chemistry, Faculty of Science and Technology, Keio University, Hiyoshi, Yokohama, Japan

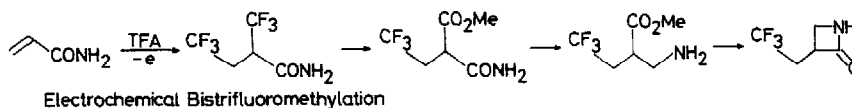


Tetrahedron Lett. 30,109 (1989)

BISTRIFLUOROMETHYLATION OF ACRYLAMIDE FOR TRIFLUOROMETHYLATED SYNTHETIC BLOCKS

Kenji Uneyama,* Osamu Morimoto, and Hiromi Nanbu

4,4,4-Trifluoro-2-trifluoromethylbutyrylamide has been electrochemically prepared and transformed into β -amino acid and β -lactam.



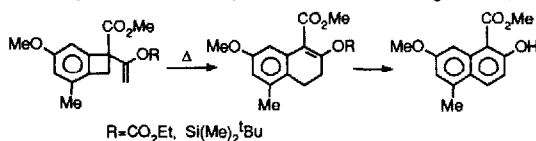
Tetrahedron Lett. 30,111 (1989)

AN EFFICIENT SYNTHESIS OF THE NAPHTHALENE MOIETY OF NEOCARZINOSTATIN CHROMOPHORE

Kozo Shishido^a, Akitake Yamashita^a, Kou Hiroya^a, Keiichiro Fukumoto^{a*}, and Tetsuji Kametani^b

^aPharmaceutical Institute, Tohoku University, Aobayama, Sendai 980, Japan

^bInstitute of Medicinal Chemistry, Hoshi University, Ebara 2-4-41, Shinagawa-ku, Tokyo 142, Japan



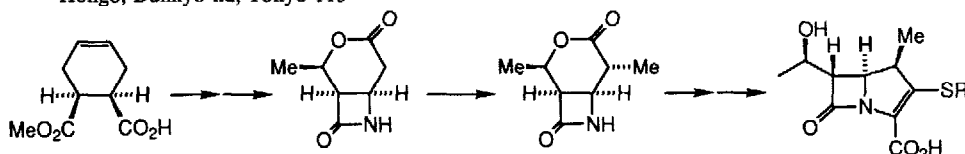
Tetrahedron Lett. 30,113 (1989)

A Stereoselective Route to the Key Intermediate of β -Methylcarbapenems by Chemicoenzymatic Approach

Harumi Kaga, Susumu Kobayashi, and Masaji Ohno

Faculty of Pharmaceutical Sciences, University of Tokyo,

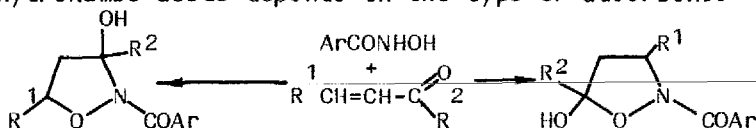
Hongo, Bunkyo-ku, Tokyo 113



SYNTHESIS OF HYDROXYISOXAZOLIDINES
ON ADSORBENTS.

I.A.Motorina*, L.A.Sviridova, G.A.Golubeva, Yu.G.Bundel
Department of Chemistry, Moscow State University, Moscow, USSR

The regioselectivity of the interaction between alkenals and hydroxamic acids depends on the type of adsorbent.

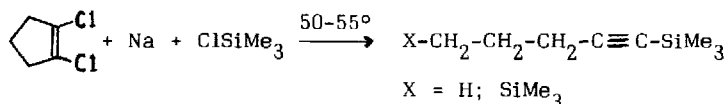


Tetrahedron Lett. 30,117(1989)

UNUSUAL C-C BOND CLEAVAGE

IN A FIVE MEMBERED RING

Gopalpur Nagendrappa
Engler-Bunte Institut, Bereich Petrochemie,
Universität Karlsruhe, 7500 Karlsruhe,
West Germany



Tetrahedron Lett. 30,121(1989)

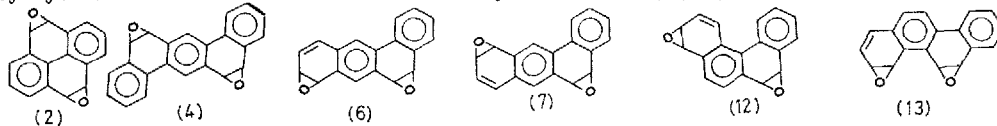
GENERAL SYNTHETIC ROUTES TO DIARENE OXIDES OF POLYCYCLIC
AROMATIC HYDROCARBONS. Shiv K. Agarwal^a, Derek R. Boyd,^a

W. Brian Jennings,^b Rosaleen M. McGuckin,^a and Gerard A. O'Kane,^a

^aDepartment of Chemistry, The Queen's University of Belfast, Belfast, BT9 5AG, U.K.

^bDepartment of Chemistry, University of Birmingham, Birmingham, BT15 2TT, U.K.

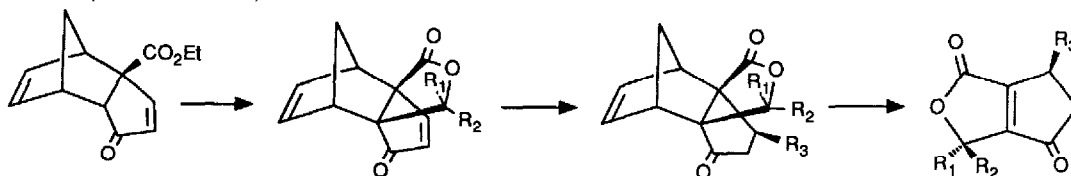
Diarene oxides are synthesised by dimethyldioxirane oxidation of monoarene oxides (2,4,7) or by cyclization reactions on bromoacetate precursors (6,7,12,13).



Tetrahedron Lett. 30,123(1989)

SYNTHESIS OF BRIDGED [4.3.3]OXAPROPELLANES BY ANGULAR
CONDENSATION OF ETHYL TRICYCLODECADIENONE 2-CARBOXYLATE
AND THEIR THERMAL CONVERSION INTO LACTONE ANNELATED CYCLOPENTENONES

J.H.M. Lange, A.J.H. Klunder and B. Zwanenburg*
Department of Organic Chemistry, University of Nijmegen,
Toernooiveld, 6525 ED NIJMEGEN, The Netherlands

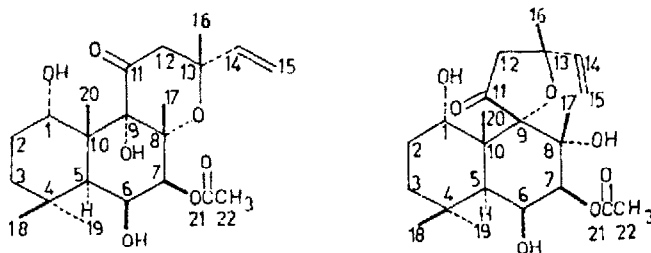


Tetrahedron Lett. 30,127(1989)

Tetrahedron Lett. 30,131(1989)

**SPIROFORSKOLIN : ACID CATALYSED
REARRANGEMENT PRODUCT OF FORSKOLIN**

R.A.Vishwakarma
Division of Phytochemistry
Central Institute of Medicinal
and Aromatic Plants,
Lucknow 226 016, India.

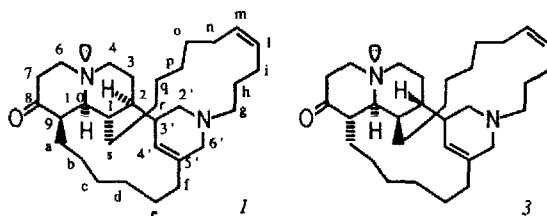


Tetrahedron Lett. 30,133(1989)

**ISOSARAIN-1: A NEW ALKALOID FROM
THE MEDITERRANEAN SPONGE *RENIERA SARAI* ¹**

G. CIMINO, A. SPINELLA and E. TRIVELLONE
Istituto per la Chimica di Molecole di Interesse
Biologico del CNR
Via Toiano n. 6, 80072, Arco Felice, Napoli, Italy

The structure of the title compound (*1*) is reported. Isosarain-1 (*1*) has a key role in the structural study of the previously partially characterized sarains 1-3 (*3-5*).

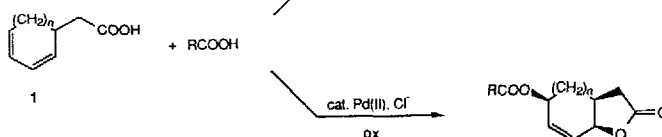


Tetrahedron Lett. 30,137(1989)

**STEREOCONTROLLED LACTONIZATION REACTIONS VIA
PALLADIUM-CATALYSIS**

Jan-E. Bäckvall,* Pher G. Andersson, and Jan O. Vågberg
Department of Organic Chemistry, University of Uppsala,
Box 531, 751 21 Uppsala, Sweden

A palladium-catalyzed lactonization reaction of diene substrates **1** was developed, that offers a dual stereo-selectivity in the addition step.



Tetrahedron Lett. 30,141(1989)

The Biosynthesis of *Scaletium* Alkaloids in *Scaletium Subvelutinum* L. Bolus

Richard B. Herbert and Abdullah E. Kattah

School of Chemistry, The University, Leeds LS2 9JT.

